Amendments to the Claims:

- 1. (Cancelled)
- 2. (Currently Amended) The method as in claim [[1]] $\underline{8}$, wherein the first message comprises a range request.
- 3. (Currently Amended) The method as in claim [[1]] 8, wherein the first message (22) comprises first timing information and is a response to a range request (21) sent from the first node (A) to the second node (B).
- 4. (Original) The method as in claim 3 further comprising the first node (A) determining the distance between the first node and the second node by considering the time of transmission of the ranging request (T1), the time of arrival of the first message (T4) and the first timing information of the first message.
- 5. (Previously Presented) The method as in claim 3 wherein the first timing information comprises the time of arrival of the ranging request (T2) at the second node and the time of transmission (T3) of the first message from the second node.
- 6. (Previously Presented) The method as in claim 3, wherein the first timing information comprises the time delay between the arrival of the ranging request and the transmission of the first message at the second node (T3-T2).

7. (Cancelled)

8. (Currently Amended) The A method as in claim 7 further of obtaining distance relationships between nodes in a network comprising a first (A), a second (B) and a third node (C), wherein the second node is within transmission range of the first node and the third node, the method comprising:

the third node (C) receiving a first message (22) being transmitted from the second node (B) to the first node (A) and transmitting a second message (24) in response to the first message (22) and the second message (24) comprising second timing information; and

the second node (B) receiving the second message (24) and determining the distance between the second device node (B) and the third node (C) by considering the time of transmission of the first message (T3), the time of reception of the second message (T7) and the second timing information.

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- 9. (Currently Amended) The method as in claim [[7]] <u>8</u>, wherein the second timing information comprises the time of arrival of the first message (T5) at the third node (C) and the time of transmission (T6) of the second message from the third node.
- 10. (Currently Amended) The method as in claim [[7]] 8, wherein the second timing information comprises the time delay between the arrival of the first message at the third node and the transmission of the second message from the third node (T6-T5).
- 11. (Currently Amended) The method of claim [[7]] 8, wherein the network is a master/slave network, the first node (A) is the master node and the second (B) and third (C) nodes are slave nodes, and wherein the second message (24) is addressed to the master device (A) and the second node (B) receives the second message by eavesdropping.
- 12. (Currently Amended) The method of claims [[7]] 8, to wherein the network is mesh network and said second message (24) is addressed to said second node (B).
- 13. (Currently Amended) The method of claim 12 wherein the third device node (C) is not within the transmission range of the first device node (A).

- 14. (Currently Amended) The method of claim [[7]] 8, wherein the request (21), the first message (22) and the second message (24) are comprised in a MAC command frame (29-36).
- 15. (Currently Amended) The method of claim [[7]] 8, wherein the request (21), the first message (22) and the second message (24) each comprise a transaction ID (34) and the transaction ID of the request, the first message and the second message match.
- 16. (Currently Amended) The method of claim [[16]] <u>15</u>, wherein the transaction ID (34) is selected at random by the first node.
- 17. (Currently Amended) The method of claim [[7]] 8, wherein the request (21), the first response (22) and the second response (24) are sent according to the IEEE 802.15.4 standard.
- 18. (Currently Amended) The method of claim [[7]] <u>8</u>, wherein the network comprises a plurality of nodes (C, D, E) eavesdropping on the first message (22) and sending a plurality of messages (24, 37, 38), the second node (B) receiving the plurality of messages and calculating the distances from the second node (B) to each of the plurality of eavesdropping nodes (C, D, E) and wherein each of the plurality of nodes are assigned a reply period to avoid collision of messages.

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- 19. (Original) The method of claim 18 wherein the reply period of each node is assigned in dependence on the power capability of the plurality of nodes.
- 20. (Original) The method of claim 18 wherein the reply period of each node is assigned at random.
- 21. (Currently Amended) A device (C) operable as a node in a wireless network having a first node (A), and a second node (B), and a third node (C)

different from said <u>first and second</u> nodes, the device comprising at the third node (C):

5 means (11) for <u>receivingeavesdropping on</u> a first message (22) being transmitted from the second <u>node</u> to the first node;

timing means (15) for measuring <u>first</u> timing information <u>indicative of</u> a time of transmission of the first message (22);

means for transmitting a second message (24) to the second node (B)

in response to the first message (22) and the second message including second timing information; and

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means for determining a distance between the second node (B) and the third node (C) based on the time of transmission of the first message (22), a time of the reception of the second message (T7) by the second node (B), and the second timing information.

- 22. (Original) The device according to claim 21 further comprising a transmitter (11) for transmitting a second message (24) in response to the first message comprising said timing information.
- 23. (Original) The device as in claim 22 wherein the timing information is based on the time of arrival of the first message (T5) and the time of transmission of the second message (T6).
- 24. (Previously Presented) The device as in claim 22 wherein the device is configured to transmit said second message (24) in a time slot assigned to the device by the coordinator (A) node of the network.
- 25. (Previously Presented) The device as in claim 22, wherein the first message (22) comprises a transaction id (34) and the device is configured to include a transaction id (34) in the second message (24) based on to the transaction id of the first message.

- 26. (Previously Presented) The device as claim 21 wherein the device operates according to the ZigBee standard.
- 27. (Original) The device as in claim 26 wherein the device is configured to accept said first message during its sleep mode.
- 28. (Previously Presented) A network comprising a plurality of nodes as claimed in claim 21.
 - 29. (Original) The network of claim 28 comprising a mesh network.
- 30. (Original) The network of claim 28 comprising a master/slave network.
- 31. (Currently Amended) A computer readable medium encoded with a computer program to be used in a wireless network comprising a first node (A), a second node [[(C)]] (B) and a plurality of eavesdropping additional nodes (C, D, E) in direct contact with the second node (B), the computer readable medium encoded with a computer program which controls a processor to:eomprising instructions for allocating

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<u>allocate</u> a reply period to each of the plurality of <u>eavesdropping</u> additional nodes when the second node has transmitted a range response (22) to the first node and

- determine a distance between the second node (B) and the plurality of additional nodes (C, D, E) based on the reply period and the range response (22).
- 32. (Currently Amended) <u>The</u>A computer readable medium <u>of</u> <u>claim 31</u>, wherein said step of allocating is made in dependence on [[the]] <u>a</u> power level of each of the plurality of <u>eavesdropping additional</u> nodes.

33. (New) A computer readable medium which stores a computer program which controls a software controllable device to perform the method according to claim 8.

34. (New) A apparatus operable in a wireless network including a first node (A), a second node (B), and a plurality of additional nodes (C, D, E) different from said first and second nodes, the apparatus comprising at each of the plurality of additional nodes (C, D, E):

a short range transceiver which receives a first message (22) being transmitted from the second node (B) to the first node (A) and transmit a second message to the second node (B) in response to the first message (22);

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wherein the first message includes a transaction ID and first timing information indicative of a time of transmission of the first message (22) and the second message includes second timing information including a time of arrival of the first message (T5) at the third node (C), a time of transmission (T6) of the second message from the third node (T6-T5), and a matching transaction ID (34) based on the first message (22);

an internal clock (15) which measures the first timing information and the second timing information; and

a central processing unit which determines a distance from the second node (B) to each of the plurality of eavesdropping nodes (C, D, E) based on the time of transmission of the first message (22), a time of reception of the second message (T7) by the second node (B), and the second timing information.